

## **ABSTRACT**

A diversity combiner and associated methods are introduced. According to one example implementation, an apparatus comprising a multi-antenna combiner and a combiner controller is presented, wherein the multi-antenna combiner selectively modifies each of two or more received wireless communication signals to generate a composite signal from at least a subset of the modified received signals. The combiner controller, coupled to the multi-antenna combiner, dynamically generates control parameters associated with each of the received signals to control combiner modification of the signals in generating the composite signal based, at least in part, on one or more quality values generated during baseband processing of previous composite signal(s).